

Oral Session 5 口頭報告 V

14:30-16:00, June 2nd, 2018 (Saturday)

Session: Physical & Mechanical Micro Devices and Systems II

Venue: Room BX-2

Chairs: 張元震教授 / 李健峰教授

Time	Paper	Page
14:30-15:00	Invited speaker: 李健峰教授 微流體技術在癌症細胞學上之應用	
15:00-15:12	A4-00-0002 3D 微結構壓電纖維製造技術之設計與應用 沈聖智	
15:12-15:24	A4-00-0011 具有數位輸出之 CMOS MEMS 電感式加速度計 劉軒吾, 邱一, 洪浩喬	
15:24-15:36	A4-00-0009 結合靜電紡絲技術開發摻雜奈米碳管的 PVDF 纖維之可撓式智慧布料 莊承鑫, 陳政翰, 黃裕斌, 王振乾	
15:36-15:48	A4-00-0014 電容式微機電振動感測器設計與測試 郭秦輔, 蘇中源, 鄧禮濤, 林育聖, 吳宗勳	
15:48-16:00	A4-00-0015 A five-degree-of-freedom measurement system based on a common-path Fabry-Perot laser interferometer Hung-Ta Shih, Pi-Cheng Tung, Yung-Cheng Wang, Lih-Horng Shyu, Chung-Ping Chang	

Session: Design, Simulation and Integration / Enabling Technologies for IoT Applications

Venue: Room BY

Chairs: 張中平教授 / 鄒慶福教授

Time	Paper	Page
14:30-15:00	Invited speaker: 鄒慶福教授 微機電技術於 LED 構裝模組之發展與應用	
15:00-15:12	D3-00-0006 Capacitive Pressure Sensing with Extended Microstructure and Integrated Readout Circuits 吳德祥, 蔡宗亨	
15:12-15:24	D3-00-0007 Investigation of the Correlation between Life Time and Thermal Stress Using Creep Propagation Functional and Machine Learning Method Chien-Chang Chen, Henry Horng-Shing Lu	
15:24-15:36	D3-00-0008 Nonlinear Contact Dynamics Modeling for Comb-Driven Folded-Beam Micromechanical Resoswitches 蔡淳樸, 杜文睿, 李尉彰	
15:36-15:48	D4-00-0001 一個 200 奈米感測間隙且基於 CMOS-MEMS 平台下利用氮化鈦製程 設	

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	計之可運用於生醫超聲波應用的微機電電容式超聲波感測元件 徐子軒, 劉峻佑, 李昇憲, 李銘晃, 陳昭瑜	
15:48-16:00	D3-00-0003 Design, Realization and Test of Tungsten Heater Based on the Bulk CMOS Jin-Chern Chiou, Tzu-Sen Yang, Shu-Yu Chang, Shang-Wei Tsai	

Session: Magnetic Field Sensing Technologies

Venue: Room BZ

Chair: 華沐怡教授

Time	Paper	Page
14:30-15:00	Invited speaker: 陳坤麟教授 A sensitive immunoassay platform based on magneto-optical Faraday effect	
15:00-15:12	B3-00-0001 Design and Implementation of LLC resonance tank applied on 200-W adaptors for the magnetic field technology Chieh-Yu Lee;Jyh-Jier Ho;Chi-Jung Chan	
15:12-15:24	B3-00-0002 Stretching and Force of dsDNA Molecules by Using Magnetic Tweezers Yung-Chiang Chung (鍾永強);Cheng-Wei Tsai;Cheng-Feng Lin;Yun Chen	
15:24-15:36	B3-00-0003 創新聲波式振動樣品磁量儀開發 宋元景;陳崇威;陸孟勳;邱逸柏;葉仁超;謝振傑	
15:36-15:48	B3-00-0006 微型交流磁導儀之高靈敏度檢測磁性粒子 陳芸萱;吳家宇;陳坤麟;廖書賢	
15:48-16:00	B3-00-0007 Ultrasound-Induced Magnetic Imaging of Tumors Targeted by Biofunctional Magnetic Nanoparticles Jen-Jie Chieh;Herng-Er Horng;Wen-Chun Wei;Meng-Hsun Lu;Chung-Wei Chen;Yuan-Ching Sung;Kai-Wen Huang;Chih-Kuang Yeh	

Session: Semiconductor and Electric Sensing Technologies III

Venue: Room 2X

Chair: 李博仁教授

Time	Paper	Page
14:30-15:00	Invited speaker: Prof. Agnes Purwidyantri Nonlithographic Nanostructures and Green Fabrication for Biosensor Development	
15:00-15:12	B4-00-0008 CMOS-MEMS 壓阻式橋狀薄膜力學感測晶片應用於癲癇藥物苯妥英之檢測 顏毅廣, 丘朝元	
15:12-15:24	B4-00-0026 Photovoltaic performance of perovskite solar cell fabricated by different	

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	methods for CH ₃ NH ₃ PbI ₃ formation Jing-Hua Lu, Hsueh-Tao Chou, Yuan-Hao Hsu, Cheng-Yueh Chen, Ho-Chun Hsu	
15:24-15:36	B4-00-0027 Enhanced performances of dye-sensitized solar cells based on Au-DTA hybrid nanocomposites Guan-Yu Lin, Hsueh-Tao Chou, Cheng-Yueh Chen, Hsin-Han Lai, Jing-Hua Lu, Wei-Hao Huang	
15:36-15:48	B4-00-0028 氟化石墨烯 pH 感測薄膜於光定址電位感測器之探討 蔡予晴, 陳琮誠, 魏振剛, 劉徽齡, 賴朝松, 楊家銘	
15:48-16:00	B4-00-0029 光定址電位感測器系統應用於鉀離子感測 王宇陽, 陳昱頻, 楊家銘	

Session: Electrochemical Sensing Technologies IV

Venue: Room 2Y

Chair: 丁信智教授

Time	Paper	Page
14:30-15:00	Invited speaker: 鄭淑華教授 Preparation, characterization and electroanalytical applications of conducting polymer nanocomposites-modified electrodes	
15:00-15:12	B1-00-0001 Characteristics of Arrayed Flexible Glucose Biosensor Based on ZnO Membrane Modified by Graphene Oxide Si-Hong Lin, Jung-Chuan Chou, Yi-Hung Liao, Chih-Hsien Lai, Yu-Hsun Nien, Cian-Yi Wu and You-Xiang Wu	
15:12-15:24	B1-00-0029 Electrochemically rGO film modified on ITO by self-assembly method for electrochemical sensing Yong-Son Liao, Hsueh-Tao Chou, You-Lun Deng, Yi-Keng Yu, Wei-Hao Huang, Cheng-Lin Liu, Tien-Ming Wu	
15:24-15:36	B1-00-0016 3D graphene oxide/cobalt oxide polyhedrons for highly sensitive non-enzymatic electrochemical determination of hydrogen Yi-Ling Li, Kogularasu sakhive, Shen-Ming-Chen, Mani Govindasamy	
15:36-15:48	B1-00-0026 Analysis of Biochemical Reactions and Kinetics Using a Microfluidic Channel and IGZO TFTs Bo-Shun Jiang, Nian-Ting Wu, Jian-Jang Huang	
15:48-16:00	B1-00-0008 研發快速血液循環腫瘤細胞檢測針 C.C. Pang, S.X. Weng, C.S. Chen, W.H. Weng	

